

## Additional file 1

**Effect of PS-F2 treatment on OVA-induced AHR in mice.** Mice were immunized, treated, and challenged as described in Figure 1. AHR (R<sub>L</sub> ratio) was measured as described in Figure 2.

		R <sub>L</sub> ratio					
		Methacholine (mg/ml)					
		0	1.56	3.13	6.25	12.5	25
PBS	1	1.01 ± 0.06	1.17 ± 0.11	1.87 ± 0.25	2.45 ± 0.31	2.63 ± 0.58*	
OVA	1	1.12 ± 0.03	1.52 ± 0.14	2.52 ± 0.48	4.17 ± 0.76	5.71 ± 1.04	
PS-F2	1	1.23 ± 0.15	1.38 ± 0.09	1.98 ± 0.24	2.80 ± 0.35*	2.99 ± 0.34*	

Data are reported as mean ± SEM ( $n = 10$ ). \* $P < 0.05$  vs. OVA group in the same column.